The Adjutant General

STATE OF WASHINGTON
MILITARY DEPARTMENT
Camp Murray • Tacoma, Washington 98430-5000

RECEI
NOV - 7 1994

November 2, 1994

Mr. Robert Cutler
US Environmental Protection Agency
Washington Operations Office
300 Desmond Drive S.E.
Lacey, Washington 98503

Dear Mr. Cutler:

Enclosed for your review are an Addendum to the Washington National Guard Site Characterization Report, Toppenish Facility, Toppenish, Washington (beneficial use survey) and a Quarterly Progress Report, WNG Toppenish, August 1994.

I will continue to keep you informed as remediation progresses. If you have any questions please contact me at (206) 512-8466.

Sincerely,

Ted Arnold
Environmental Program Manager
Washington Military Department

Enclosure

Clr for Closure

The Adjutant General

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Sincerely,

Ted Arnold
Environmental Program Manager
Washington Military Department

Enclosure

BURLINGTON
ENVIRONMENTAL

October 26, 1994
Project 626386

Mr. Ted Arnold
Washington State Military - Facility Engineering
Camp Murray, Building 36
Tacoma, WA 98430

Dear Mr. Arnold:

SUBJECT: QUARTERLY PROGRESS REPORT, WNG TOPPENISH, AUGUST 1994

This report summarizes Burlington Environmental Inc.'s (Burlington) activities at the WNG Toppenish facility during the month of August 1994. Included in this report is a summary of the groundwater monitoring results that was collected in August 1994 and a budget status summary for the project.

Description of Work Completed

The following tasks were completed during this reporting period:

1. Previous waste water was disposed.
2. Previous soil cuttings were taken to Pasco Landfill and disposed.
3. Groundwater samples were collected.
4. Soak-ease was installed in MW1, MW-2, MW-3.
5. MW-7 well monument was replaced.
6. Soak-ease treatment was checked.

Activities and Findings

Five drums of purge water from the previous round of groundwater sampling were disposed on August 23, 1994. The drums were transported to the nearest manhole, and under the supervision of the City of Toppenish, the water was emptied into the sewer.

Burlington Environmental Inc.
Technical Center
P.O. Box 3552 • Seattle, WA 98124-3552
955 Powell Avenue Southwest • Renton, WA 98055
Phone 206/227-0311 • Main FAX 206/227-6191 • Laboratory FAX 206/227-6196

On the same day, approximately 5000 pounds of soil cuttings were transported to the Pasco Landfill at Pasco, Washington, and disposed there.

MW-7. Water was purged from the wells using an ISCO High Volume Peristaltic Pump. Clean polyethylene (PET) tubing was inserted into the well, below the water table, to a point midway in the screen section. The PET tubing was connected to Silicone tubing which goes through the peristaltic pump. The discharge end of the pump was connected to the input valve of the Accuwell 820 Controller.

The Accuwell 820 Controller contains a sensor pack, which measures water quality parameters pH, dissolved oxygen (D.O.), conductivity, temperature, and oxidation-reduction potential (ORP), and a flow meter which measures the amount of water flowing through the controller. Water from the pump flows into the sensor pack, then through the flow meter. Water quality readings are taken automatically every 2 liters and recorded on hard copy by the 820 Controller.

When the D.O. and ORP readings are within 10% for two consecutive readings, the water purging from the well is considered representative and the 820 Controller indicates that the well is ready to sample. The purge water flows directly from the 820 Controller into a 55 gallon drum. Once the well is ready to be sampled, the discharge tube from the peristaltic pump is disconnected from the 820 Controller and the sample jars filled. After each well was sampled, the tubing was discarded and replaced by new tubing for the next well. A summary of the groundwater sample results for all sampling periods is presented in Table 1. Attachment A includes the analytical results package provided by the laboratory for the August 1994 sampling event. The data in Attachment A have been reviewed for quality assurance and have been found to be acceptable for the intended purpose.

Soak-ease product recovery system was installed in wells MW-1, MW-2, MW-3 on August 24, 1994. Each soak-ease was situated such that the mid point of the soak-ease intersected the water table. The only well with visible evidence of product was well MW-3. A sheen was noted on top of the water table.

On August 31, 1994, the well monument for MW-7 was replaced. The soak-ease in the three wells was checked for product. MW-3 was the only well with any product absorbed onto the absorbent pad of the soak-ease. Approximately 3 inches of light brown product was visible at the lower end of the tube. An HNu-PID was used to determine if there was any product on the other two installed soak-ease. A zero reading was indicated for both MW-1 and MW-2.

Recommendations

The soak-ease placed in MW-1 and MW-2 show no sign of floating product in the wells, either visibly or as indicated with the HNu-PID. It is Burlington's recommendation that these two wells be included in the next round of groundwater sampling. The cost for analysis will be an additional $140.63 per well, with an additional hour in labor per well. This amounts to a cost of approximately $264.63 per well.

If you have any questions regarding this report please give me a call at (206) 227-6180.

Sincerely,

BURLINGTON ENVIRONMENTAL INC.

Louis S. LaRosa III
Project Manager

Attachments: Table 1
Attachment A - Analytical Results
Attachment B - Budget Status Summary

Table 1

TOPPENISH GROUNDWATER SAMPLING
ANALYTICAL RESULTS

Well #	Sampling Event	Analytical Results		
	mm/yy	TPH-D mg/l	Total Lead mg/l	Dissolved Lead mg/l
MW-4	Aug-92	0.79	0.1	<0.005
MW-4	Aug-94	ND	0.003	ND
MW-4-W2D*	Aug-94	ND	ND	ND
MW-5	Aug-92	1.00	0.29	<0.005
MW-5	Aug-94	ND	0.005	ND
MW-6	Aug-92	0.62	0.13	<0.005
MW-6	Aug-94	0.31	ND	ND
MW-7	Aug-92	0.62	0.012	<0.005
MW-7	Aug-94	ND	ND	ND

* Indicates duplicate collected

BURLINGTON ENVIRONMENTAL

MEMORANDUM

DATE: October 23, 1994 Project 626386

TO: David Broten

FROM: Kathy Blaine

SUBJECT: Analytical Data QA Review

I have completed a review of the analytical data for five water samples collected on 8/24/94 and listed on COC # 8256. The samples were analyzed for the Washington State TPH method, total lead, and dissolved lead by Sound Analytical. The data evaluation was conducted in accordance with the USEPA Data Validation Functional Guidelines and the method specific Quality Control (QC) criteria. The items that were assessed included method blanks, matrix spike/matrix spike duplicate (MS/MSD) information, and holding times.

No deviations from the accepted QC criteria were noted. All data as reported by the laboratory is considered valid and usable. If you have any questions, or need additional information, please feel free to contact me.

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

TRANSMITTAL MEMORANDUM

DATE: September 1, 1994

TO: David Broten
Burlington Environmental Technical Services

PROJECT: Toppenish WNG
P. O. No. 44982

LABORATORY NUMBER: 42715

Enclosed are the original and one copy of the Tier II data deliverables package for Laboratory Work Order Number 42715. Five samples were received for analysis at Sound Analytical Services, Inc., on August 25, 1994.

Should there be any questions regarding this data package, please do not hesitate to call me at (206) 922-2310.

Sincerely,

Lila A Transue

Lila A. Transue
Project Manager

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: Burlington Environmental Technical Services Date: September 1, 1994

Report On: Analysis of Water Lab No.: 42715

IDENTIFICATION:
Samples received on 08-25-94
Project: Toppenish WNG

ANALYSIS:

Lab Sample No. 42715-1 Client ID: MW-6-W2

WTPH-D
Date Extracted: 8-31-94
Date Analyzed: 8-31-94
Units: mg/L

Parameter	Result	PQL	Flag
Diesel (> C12 - C24)	0.31	0.25	
SURROGATE RECOVERY, %			
o-terphenyl	65		

Total ICP Metals Per EPA Method 200.8
Date Analyzed: 8-29-94
Units: mg/L

Parameter	Result	PQL
Lead	ND	0.003

Dissolved ICP Metals Per EPA Method 200.8
Date Analyzed: 8-29-94
Units: mg/L

Parameter	Result	PQL
Lead	ND	0.003

ND - Not Detected
PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

Burlington Environmental Technical Services
Project: Toppenish WNG
Lab No. 42715
September 1, 1994

Lab Sample No. 42715-2 Client ID: MW-5-W2

WTPH-D
Date Extracted: 8-31-94
Date Analyzed: 8-31-94
Units: mg/L

Parameter	Result	PQL	Flag
Diesel (> C12 - C24)	ND	0.25	
SURROGATE RECOVERY, %			
o-terphenyl	88		

Total ICP Metals Per EPA Method 200.8
Date Analyzed: 8-29-94
Units: mg/L

Parameter	Result	PQL
Lead	0.005	0.003

Dissolved ICP Metals Per EPA Method 200.8
Date Analyzed: 8-29-94
Units: mg/L

Parameter	Result	PQL
Lead	ND	0.003

ND - Not Detected
PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

Burlington Environmental Technical Services
Project: Toppenish WNG
Lab No. 42715
September 1, 1994

Lab Sample No. 42715-3 Client ID: MW-4-W2

WTPH-D
Date Extracted: 8-31-94
Date Analyzed: 9-1-94
Units: mg/L

Parameter	Result	PQL	Flag
Diesel (> C12 - C24)	ND	0.25	
SURROGATE RECOVERY, %			
o-terphenyl	77		

Total ICP Metals Per EPA Method 200.8
Date Analyzed: 8-29-94
Units: mg/L

Parameter	Result	PQL
Lead	0.003	0.003

Dissolved ICP Metals Per EPA Method 200.8
Date Analyzed: 8-29-94
Units: mg/L

Parameter	Result	PQL
Lead	ND	0.003

ND - Not Detected
PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

Burlington Environmental Technical Services
Project: Toppenish WNG
Lab No. 42715
September 1, 1994

Lab Sample No. 42715-4 Client ID: MW-4-W2D

WTPH-D
Date Extracted: 8-31-94
Date Analyzed: 9-1-94
Units: mg/L

Parameter	Result	PQL	Flag
Diesel (> C12 - C24)	ND	0.25	
SURROGATE RECOVERY, %			
o-terphenyl	76		

Total ICP Metals Per EPA Method 200.8
Date Analyzed: 8-29-94
Units: mg/L

Parameter	Result	PQL
Lead	ND	0.003

Dissolved ICP Metals Per EPA Method 200.8
Date Analyzed: 8-29-94
Units: mg/L

Parameter	Result	PQL
Lead	ND	0.003

ND - Not Detected
PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

Burlington Environmental Technical Services
Project: Toppenish WNG
Lab No. 42715
September 1, 1994

Lab Sample No. 42715-5 Client ID: MW-7-W2

WTPH-D
Date Extracted: 8-31-94
Date Analyzed: 9-1-94
Units: mg/L

Parameter	Result	PQL	Flag
Diesel (> C12 - C24)	ND	0.25	
SURROGATE RECOVERY, %			
o-terphenyl	64		

Total ICP Metals Per EPA Method 200.8
Date Analyzed: 8-29-94
Units: mg/L

Parameter	Result	PQL
Lead	ND	0.003

Dissolved ICP Metals Per EPA Method 200.8
Date Analyzed: 8-29-94
Units: mg/L

Parameter	Result	PQL
Lead	ND	0.003

ND - Not Detected
PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

WTPH-D (Diesel Range Organics)

Client: Burlington Environmental Technical Services
Lab No: 42715qc1
Units: mg/L

Date Extracted: 8-31-94
Date Analyzed: 8-31-94

METHOD BLANK

Blank No. 046R0201.D

Parameter	Result	PQL
Diesel	ND	0.25
SURROGATE RECOVERY% o-terphenyl	76	

ND = Not Detected
PQL = Practical Quantitation Limit

BLANK SPIKE

BS No. 047R0201.D

Parameter	BS Result	BS Amount	BS %R
Diesel	297	502	59

%R = Percent Recovery
BS = Blank Spike

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

Total Lead

Client: Burlington Environmental Technical Services
Lab No: 42715qc2
Units: mg/L
Date Analyzed: 8-29-94

METHOD BLANK

Parameter	Result	PQL
Lead	ND	0.003

ND = Not Detected
PQL = Practical Quantitation Limit

DUPLICATE

Dup No. 42715-1

Parameter	Sample	Duplicate	RPD
Lead	ND	ND	NC

RPD = Relative Percent Difference
NC = Not Calculated

MATRIX SPIKE

MS No. 42715-1

Parameter	Sample Result	Spiked Sample Result	Spike Added	%R
Lead	ND	0.076	0.10	76

%R = Percent Recovery

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

Dissolved Lead

Client: Burlington Environmental Technical Services
Lab No: 42715qc3
Units: mg/L
Date Analyzed: 8-29-94

METHOD BLANK

Parameter	Result	PQL
Lead	ND	0.003

ND = Not Detected
PQL = Practical Quantitation Limit

BURLINGTON ENVIRONMENTAL

10 West Sand Bank Road
P.O. BOX 230
Columbia, IL 62236-0230
618-281-7173
618-281-5120 FAX

CHAIN-OF-CUSTODY RECORD

C.O.C. SERIAL NO. 8256

PROJECT NAME: [illegible] WNG
PROJECT NUMBER: [illegible] MAJOR TASK 2030.77
SAMPLERS:
LAB DESTINATION: [illegible] Analytical Services

SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE LOCATION	NO. OF CONTAINERS	TYPE OF ANALYSIS: WTPH-D	Total Lead 7421	Dissolved Lead 7421				PRESERVATIVES: ICED	CHEMICALS ADDED	REMARKS (CHEMICAL ANALYSIS REQUEST FORM NUMBER IF APPLICABLE)
		[illegible]		✓	MW-6-W2	3	1	1	1				✓		
		[illegible]		✓	MW-5-W2	3	1	1	1				✓		
				✓	MW-4-W2	3	1	1	1				✓		
		[illegible]		✓	MW-4-W2D	3	1	1	1				✓		
		[illegible]		✓	MW-7-W2	3	1	1	1				✓		
															Request Data on Batch MS/MSD

RELINQUISHED BY / RECEIVED BY

RELINQUISHED BY SIGNATURE	DATE	TIME	RECEIVED BY SIGNATURE	DATE	TIME
[signature]	8-25-94	8:30	[signature]	8-25-94	11:10 AM
[signature]	8-25-94	11:40	Mary Carter	8/25/94	11:40

SHIPPING NOTES

P.O.# 44982

[illegible] sealed at 8:30 on 8-25-94

LAB NOTES

BE-34 (1/93)

Attachment B
Budget Status Summary

Phase	September Invoice	October Invoice	Total Invoiced	Percent Complete
2010 - First Qtr. Sampling	$2,734.52	$849.27	$3,583.79	100%
2020 - Maintenance	$0.00	$1,000.00	$1,000.00	100%
2030 - Qrtly. Sampling	$0.00	$0.00	$0.00	0%
2040 - Analytical	$0.00	$562.50	$562.50	25%
2050 - Beneficial Use Study	$0.00	$0.00	$0.00	0%
2060 - Qrtly. Prog. Rpt.	$0.00	$0.00	$0.00	0%
2070 - Final Rpt.	$0.00	$0.00	$0.00	0%
2080 - Previous Waste Disposal	$1,998.19	$639.17	$2,637.36	100%
2090 - New Waste Disposal	$0.00	$0.00	$0.00	0%
Total Invoice	$4,732.71	$3,050.94		

ADDENDUM TO
WASHINGTON NATIONAL GUARD
SITE CHARACTERIZATION REPORT
TOPPENISH FACILITY
TOPPENISH, WASHINGTON

October 1994

Prepared for:

Washington State National Guard
Tacoma, Washington

Project # 626386

Prepared by:

BURLINGTON
ENVIRONMENTAL

TECHNICAL SERVICES DIVISION
P.O. Box 3552
Seattle, Washington 98124-3552
(206) 227-0311

Per Washington Administrative Code (WAC) 173-340-450 a beneficial use of groundwater survey was conducted for the Washington National Guard (WNG) Toppenish Facility. Five subjects were included in this survey: information on nearby wells, surface and groundwater quality, local land use and potential pathways for contaminated water and free product migration

Information on nearby wells was obtained from the Central District office of the Washington State Department of Ecology (Ecology) in Yakima. A search of all well logs on file in sections 2,3,10 and 11 of Township 10 North, Range 20 East was conducted. The closest wells to the site are located in the northwest quarter of the northeast quarter of section 10 of Township 10 North, Range 20 East. These wells consist of a group of 3 wells categorized as industrial and located at the Del Monte Plant 122, and a test well located at Western Farm. These four wells are approximately 1300 feet east of the WNG Toppenish facility. With a groundwater flow direction to the northwest identified in the Limited Site Characterization Report this would place these wells in a cross-gradient relationship with the Toppenish facility. The nearest identified well downgradient of the facility is a test well installed at the school bus yard at the corner of Franklin Avenue and Fir Street in 1991. This well is approximately 3800 feet to the north-northwest of the facility. Ecology records indicate that no domestic water wells are present downgradient of the facility in this search area. Copies of all well logs obtained from Ecology are attached to this report.

The nearest surface water body to the Toppenish facility is an irrigation flume located approximately 2000 feet to the south. Given its location relative to the facility, impact to this irrigation flume from the UST release would not be expected.

Groundwater quality at the site is impacted by the presence of dissolved petroleum hydrocarbons in the upper section of the aquifer. Free product has also been found at the site and is currently being remediated. WNG has instituted a quarterly monitoring system for the wells onsite. Four quarters of data will be collected from these wells to monitor the extent of the dissolved contaminant and the status of the free product removal effort.

Local land use around the Toppenish facility consists of mixed residential, industrial. The facility is located within the city limits of Toppenish.

Potential conduits for the migration of free product and contaminated water consist of movement through the porous sands and gravels beneath the facility. This movement will be with the groundwater flow identified in the Limited Site Characterization Report. No preferential pathways have been identified such as storm sewers or other utility ways.

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 086017

(8)

Water Right Permit No. _____

(1) OWNER: Name Judy Hughs Address 751 Old McCoy Rd., Toppenish

(2) LOCATION OF WELL: County Yakima NE ¼ NE ¼ Sec 2 T. 10 N., R. 20 W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) 751 Old McCoy Rd., Toppenish, WA 98948

(3) PROPOSED USE: [X] Domestic [ ] Industrial [ ] Municipal [ ] Irrigation [ ] Test Well [ ] Other [ ] DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) _____

Abandoned [ ] New well [X] Method: Dug [ ] Bored [ ] Deepened [ ] Cable [ ] Driven [ ] Reconditioned [ ] Rotary [X] Jetted [ ]

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 50 feet. Depth of completed well 50 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 50 ft.

Welded [X] Liner installed [ ] Threaded [ ] _____ " Diam. from _____ ft. to _____ ft.

Perforations: Yes [ ] No [X]

Type of perforator used _____

SIZE of perforations _____ in. by _____ in.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

Screens: Yes [ ] No [X]

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes [ ] No [X] Size of gravel _____

Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes [X] No [ ] To what depth? 18 ft.

Material used in seal Bentonite Clay

Did any strata contain unusable water? Yes [ ] No [X]

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____

Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.

Static level 10 ft. below top of well Date 4/22/92

Artesian pressure _____ lbs. per square inch Date _____

Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes [ ] No [X] If yes, by whom? _____

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____

Bailer test _____ gal. min. with _____ ft drawdown after _____ hrs.

Airtest 75 gal min with stem set at 50 ft. for 1 hrs.

Artesian flow _____ g.p.m. Date 4/22/92

Temperature of water 58° Was a chemical analysis made? Yes [ ] No [X]

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Topsoil	0	8
Brown Clay, Sand, & Large & Small Gravel	8	14
Brown Clay, Large & Small Gravel, Water & Sand	14	50

Work started 4/21/92 19. Completed 4/22/92 19

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Water Wells Drilling, Inc. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 5502 Ahtanum Yakima WA 98903

(Signed) Gary L. Rank (WELL DRILLER) License No. 1435

Contractor's Registration No. WATERWD112QB Date 4/23/92 19

(USE ADDITIONAL SHEETS IF NECESSARY)

SOIL SAMPLING SERVICE, INC.

1415 MERIDIAN EAST, PUYALLUP, WA 98371-1399
FEDERAL ID #: 91-0762274 WA CONT. #SOIL SS*344LO
(206) 927-3173
TELEX: 466762
FAX: (206) 927-3478

Geotechnical, Engineering & Mineral Exploration Drilling • Instrumentation • Horizontal Drains
Ground Water Monitoring • Hazardous Waste Identification • Well Abandonments

RESOURCE PROTECTION WELL REPORT

PROJECT NAME: School Bus Garage
WELL IDENTIFICATION NO.: MW-1,2
DRILLING METHOD: Air Rotary
DRILLER: Harold Niswander

SIGNATURE: Harold Niswander
CONSULTING FIRM: SAIC
REPRESENTATIVE: Barbara Blackburn

JOB #: W2959 START CARD NO.: 062474
COUNTY: Yakima CITY: Toppenish
LOCATION: NW 1/4 SW 1/4 ____ 1/4
SEC.: 3 TOWN: 10N RANGE: 20E
DATUM: ____
WATER LEVEL ELEVATION: ____
INSTALLED: 4-19-91
DEVELOPED: ____

WELL DATA	AS BUILT	FORMATION DESCRIPTION
Monument 1' concrete 3' chips Colorado Sand 15'	4" x 5' blank 4" x 10' x .010 screen 5' 15'	0' Sands & Gravels 15'

SCALE: 1" = ____

PAGE ____ OF ____

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Permit No. ....

(1) OWNER: Name Lawrence + Ruth Gleason Address 304 No. F St.

(2) LOCATION OF WELL: County ...... — ¼ ¼ Sec. 3 T. 16 N., R. 20E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 2
New well ☐ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☒
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 3 inches.
Drilled 26 ft. Depth of completed well 26 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: ......" Diam. from ...... ft. to ...... ft.
Threaded ☐ ......" Diam. from ...... ft. to ...... ft.
Welded ☐ ......" Diam. from ...... ft. to ...... ft.

Perforations: Yes ☐ No ☐
Type of perforator used [illegible]
SIZE of perforations ...... in. by ...... in.
...... perforations from ...... ft. to ...... ft.
...... perforations from ...... ft. to ...... ft.
...... perforations from ...... ft. to ...... ft.

Screens: Yes ☐ No ☐
Manufacturer's Name unknown
Type...... Model No......
Diam. ...... Slot size ...... from ...... ft. to ...... ft.
Diam. ...... Slot size ...... from ...... ft. to ...... ft.

Gravel packed: Yes ☒ No ☐ Size of gravel: [illegible]
Gravel placed from ...... ft. to ...... ft.

Surface seal: Yes ☐ No ☒ To what depth? ...... ft.
Material used in seal......
Did any strata contain unusable water? Yes ☐ No ☐
Type of water?...... Depth of strata......
Method of sealing strata off......

(7) PUMP: Manufacturer's Name Berkeley
Type: [illegible] H.P. 1½

(8) WATER LEVELS: Land-surface elevation above mean sea level...... ft.
Static level 14 ft. below top of well Date......
Artesian pressure ...... lbs. per square inch Date......
Artesian water is controlled by...... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? [illegible]
Yield: ...... gal./min. with ...... ft. drawdown after ...... hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ......
Bailer test...... gal./min. with...... ft. drawdown after...... hrs.
Artesian flow...... g.p.m. Date......
Temperature of water...... Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO

RECEIVED
1974
DEPARTMENT OF ECOLOGY

Work started...... 19...... Completed...... 19......

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME [illegible] (Person, firm, or corporation) (Type or print)
Address [illegible]
[Signed] [illegible] (Well Driller)
License No...... Date......, 19......

(USE ADDITIONAL SHEETS IF NECESSARY)

E. F. No. 7356—OS—(Rev. 4-71).

STATE OF WASHINGTON

(1) OWNER: Name DEL MONTE CORPORATION #122 Address P. O. Box 71, Toppenish, Wash. 9894

(2) LOCATION OF WELL: County Yakima NW NE 10 10 20E

Bearing and distance from section or subdivision corner: 440' East & 1230' North from Center of Sec 10

(3) PROPOSED USE: Domestic ☐ Industrial X Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 2
New well ☐ Method: Dug ☐ Bored X
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 12 inches.
Drilled ... ft. Depth of completed well 240 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 12 " Diam. from 0 ft. to 105 ft.
Threaded X 10 " Diam. from 100 ft. to 218 ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes X No ☐
Type of perforator used
SIZE of perforations 3/8 in. by 2 in.
12 Per Ft. perforations from 50 ft. to 218 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No X
Manufacturer's Name Model No.
Type
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes X No ☐ Size of gravel Unknown
Gravel placed from ft. to ft.

Surface seal: Yes ☐ No ☐ To what depth? ft.
Material used in seal
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Peerless Pump
Type 6 Inch H.P. 60

(8) WATER LEVELS: Land-surface elevation above mean sea level ft
Static level 20 ft. below top of well Date
Artesian pressure None lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes X No ☐ If yes, by whom?
Yield: 600 gal./min with 12.5 ft. drawdown after 24 hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, show thickness of aquifer and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Same As Well #1		
Located approximately 300 Ft. North of Well #1		

DEPARTMENT OF CONSERVATION
SPOKANE OFFICE

Work started 4-1 19 47 Completed 5 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Well Driller Deceased
(Person, firm, or corporation) (Type or print)

Address

[Signed] (Well Driller)

License No. Date 19

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. (Rev. 4-61)

3/18/14

The Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 12-37

Permit No. ______

(1) OWNER: Name Del Monte Corporation Address Box 71, Toppenish, Washington 98948

(2) LOCATION OF WELL: County Yakima S½ SW¼ NE¼ Sec. 10 T. 10 N., R. 20 W.M.

Bearing and distance from section or subdivision corner 625 ft. east, 270 ft. north of center of Sec. 10.

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☒

(4) TYPE OF WORK: Owner's number of well (if more than one) ______
New well ☐ Method: Dug ☐ Bored ☒
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well ______ inches.
Drilled ______ ft. Depth of completed well 45 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from ______ ft. to ______ ft.
Threaded ☐ ______ " Diam. from ______ ft. to ______ ft.
Welded ☐ ______ " Diam. from ______ ft. to ______ ft.

Perforations: Yes ☐ No ☒
Type of perforator used ______
SIZE of perforations ______ in. by ______ in.
______ perforations from ______ ft. to ______ ft.
______ perforations from ______ ft. to ______ ft.
______ perforations from ______ ft. to ______ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name ______
Type ______ Model No. ______
Diam. ______ Slot size ______ from ______ ft. to ______ ft.
Diam. ______ Slot size ______ from ______ ft. to ______ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: ______
Gravel placed from ______ ft. to ______ ft.

Surface seal: Yes ☐ No ☒ To what depth? ______ ft.
Material used in seal ______
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ______ Depth of strata ______
Method of sealing strata off ______

(7) PUMP: Manufacturer's Name ______
Type: ______ H.P. ______

(8) WATER LEVELS: Land-surface elevation above mean sea level ______ ft.
Static level 20 ft. below top of well Date ______
Artesian pressure 0 lbs. per square inch Date ______
Artesian water is controlled by ______ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? ______
Yield: 220 gal./min. with ______ ft. drawdown after ______ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ______
Bailer test ______ gal./min. with ______ ft. drawdown after ______ hrs.
Artesian flow ______ g.p.m. Date ______
Temperature of water ______ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	5'
Gravel	5'	13'
Boulders and some [illegible]	13'	16'
Cemented gravel	[illegible]	28'
Boulders and gravel	28'	31'
[illegible]	31'	45'

This well was drilled in 1947,
and to our knowledge no record was made.
We have answered the questions
as best we could. The well
driller is deceased.

Work started ______ 1947 Completed ______ 1947

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ______ (Person, firm, or corporation) (Type or print)

Address ______

[Signed] ______ (Well Driller)

License No. ______ Date ______, 19__

(USE ADDITIONAL SHEETS IF NECESSARY)

E.F. No. 1(20—OS—(Rev. 4-71).

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

#1- WATER WELL REPORT

STATE OF WASHINGTON

#122

(5)

Application No.

Permit No. 300563

(1) OWNER: Name DEL MONTE CORPORATION Address P. O. Box 71, Toppenish, Wash. 98948

LOCATION OF WELL: County Yakima NW ¼ NE ¼ Sec. 10 T 10 N., R 20E W.M.

Bearing and distance from section or subdivision corner 220' East & 1150' South of North Quarter Corner Sec 10

(3) PROPOSED USE: Domestic ☐ Industrial ☒ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one).... 2

New well ☐ Method: Dug ☐ Bored ☒
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 14 inches.
Drilled ..... ft. Depth of completed well 238 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 14 " Diam. from 0 ft. to 105 ft.
Threaded ☐ 10 " Diam. from 100 ft. to 218 ft.
Welded ☐ ..... " Diam. from ..... ft. to ..... ft.

Perforations: Yes ☒ No ☐
Type of perforator used .....
SIZE of perforations 3/8 in. by 2 in.
12 Per Ft. perforations from 50 ft. to 218 ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒
Manufacturer's Name .....
Type ..... Model No .....
Diam. ..... Slot size ..... from ..... ft. to ..... ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☒ No ☐ Size of gravel: Unknown
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☐ No ☐ To what depth? ..... ft.
Material used in seal .....
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

(7) PUMP: Manufacturer's Name Kimball Krogh Pump
Type: 8" H.P. 75

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ..... ft.
Static level 20 ft. below top of well Date .....
Artesian pressure None lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? .....
Yield: 700 gal./min. with 20 ft. drawdown after 24 hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top Soil	0'	5'
Gravel	5'	12'
Cement Gravel	12'	29'
Boulder & Water	29'	31'
Cement Gravel	31'	52'
Loose Gravel & Water	52'	53'
Cement Gravel	53'	57'
Loose Gravel & Water	57'	58'
Cement Gravel	58'	67'
Loose Gravel & Water	67'	68'
Muddy Gravel	68'	73'
Yellow Clay	73'	78'
Loose Gravel & Water	78'	87'
Cement Gravel	87'	88'
Loose Gravel & Water	88'	97'
Muddy Gravel	97'	111'
Cement Gravel	111'	120'
Loose Gravel & Water	120'	121'
Cement Gravel	121'	142'
Loose Gravel & Water	142'	144'
Cement Gravel	144'	160'
Loose Gravel & Water	160'	161'
Shale & Gray Gravel	161'	180'
Loose Gravel, Sand, Water	180'	187'
Shale & Gray Gravel	187'	206'
Yellow Clay	206'	208'
Shale & Gray Gravel	208'	213'
Pea Gravel & Water	213'	218'
Yellow Clay	218'	238'

Work started 3-21 19 42 Completed 3-25 19 42

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Well Driller Deceased
(Person, firm, or corporation) (Type or print)

Address .....

[Signed] .....
(Well Driller)

License No. ..... Date ....., 19.....

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

2700

Start Card No. 036415

Water Right Permit No. (6)

OWNER: Name Del Monte Plant #122 Address E. 3rd. Ave., Toppenish

(2) LOCATION OF WELL: County Yakima NW ¼ NE ¼ Sec. 10 T. 10 N., R. 20 W.M.

2a) STREET ADDRESS OF WELL (or nearest address) E. 3rd. Ave., Toppenish

(3) PROPOSED USE: ☐ Domestic ☐ Irrigation ☐ DeWater ☒ Industrial ☐ Test Well ☐ Municipal ☐ Other

4) TYPE OF WORK: Owner's number of well (if more than one)

Abandoned ☐ New well ☐ Deepened ☐ Reconditioned ☒ Method: Dug ☐ Cable ☐ Rotary ☒ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 10 inches. Drilled 0 feet. Depth of completed well 213 ft.

6) CONSTRUCTION DETAILS:

Casing installed: 10 " Diam. from 0 ft. to 99 ft.

Welded ☒ Liner installed ☐ Threaded ☐ _____ " Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☒

Type of perforator used

SIZE of perforations _____ in. by _____ in.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☒

Manufacturer's Name

Type Model No.

Diam. Slot size from ft. to ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel

Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 99 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☒ No ☐

Type of water? Depth of strata 0-98

Method of sealing strata off Casing & Bentonite

7) PUMP: Manufacturer's Name

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.

Static level 12 ft. below top of well Date 2-4-90

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test gal./min. with ft. drawdown after hrs.

Airtest ? gal./min. with stem set at 213 ft. for 1 hrs.

Artesian flow g.p.m. Date 2-4-90

Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Installed 10" casing down to existing 10" casing with a collar on the 10" pipe. Than sealed around the 10" with bentonite.		
(#1 Well)		

RECEIVED

Work started 2-3-90 19. Completed 2-4- 19 90

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Water Wells Drilling INC. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 5503 Ahtanum Rd.; Yakima 98903

(Signed) Jerry L. Rank (WELL DRILLER) License No. 1435

Contractor's Registration No. WATER WD112QB Date 2-7- 19 90

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20 (10 87) -1329-

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

(7)

Start Card No. ~~206~~ 33596

Water Right Permit No. _____

(1) OWNER: Name ~~[redacted]~~ WOODWARD-UNITE WESTERN FARM Address 405 S. E STREET, TOPPENISH WA

(2) LOCATION OF WELL: County YAKIMA NW ¼ NE ¼ Sec. 10 T. 10 N., R. 20 W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) _____

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☒ Test Well ☐ Other ☐ ☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) _____

Abandoned ☐ New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 2 inches.
Drilled 21'9 feet. Depth of completed well 21'9" ft.

(6) CONSTRUCTION DETAILS: PVC

Casing installed: 2" Diam. from 0 ft. to 11 ft.
Welded ☐ _____ Diam. from _____ ft. to _____ ft.
Liner installed ☐
Threaded ☒ _____ Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☐
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☒ No ☐
Manufacturer's Name HYDROPHELIC
Type PVC Model No. _____
Diam. 2 Slot size .10 from 11 ft. to 21 ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☐ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 8½' ft.
Material used in seal Bentonite-Cement
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 10' 10" ft. below top of well Date 3-13-90
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.))

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL		FROM	TO
GRAVEL SAND TOPSOIL COBBLES	m	0	1
SANDY LOAM	S	1	4
SANDY CLAY	S	4	9
SAND	S	9	11
COBBLES, GRAVEL	MH	11	15
SANDY GRAVEL	MS	15	21

RECEIVED
DEPARTMENT OF ECOLOGY
CENTRAL REGION

Work started 3 13 90 19. Completed 3 13-90 19

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME RIEBE WELL DRILLING INC (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address PO BOX 10866 YAKIMA WA 98909

(Signed) RIEBE (WELL DRILLER) License No. 0422

Contractor's Registration No. 132K1 Date 3-14 19 90

(USE ADDITIONAL SHEETS IF NECESSARY)

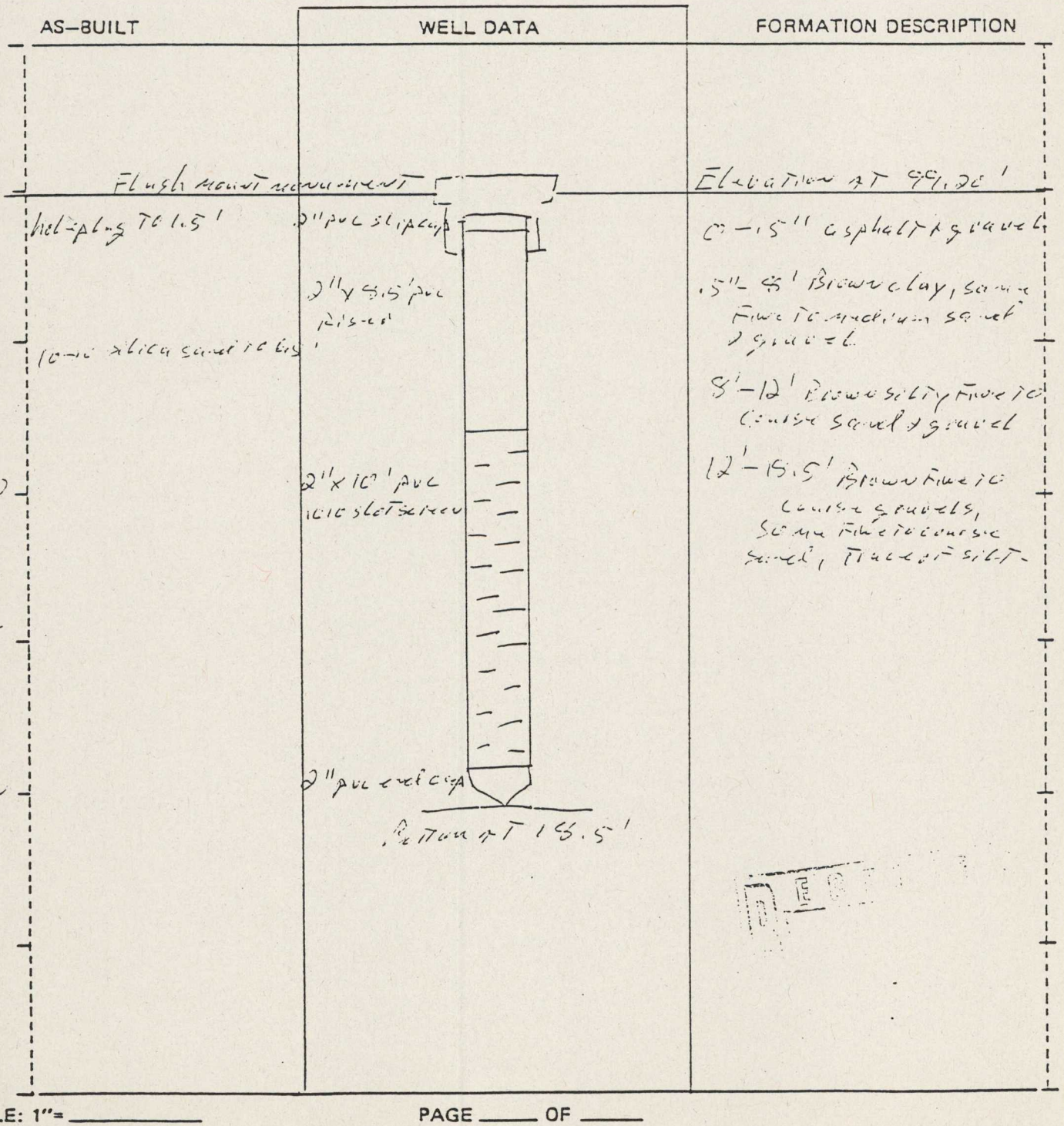
ECY 050-1-20 (10/87) -1329- 3

RESOURCE PROTECTION WELL REPORT

START CARD NO. 46735

PROJECT NAME: Tohnish National Guard
WELL INDENTIFICATION NO. MW-1
LLING METHOD: HSA. 4.25" ID
DRILLER: John W. Dolan 1777
FIRM: Building Environmental Inc
SIGNATURE: John W. Dolan
ONSULTING FIRM: B.E.I.
REPRESENTATIVE: K. Tahghighi

LOCATION: T 10N, R 20E, SEC. 10
DISTANCE: _____ FT. FROM N/S SECTION LINE
_____ FT. FROM E/W SECTION LINE
DATUM: MSL
WATER LEVEL ELEVATION: 100.5'
INSTALLED: 5-11-92
DEVELOPED: 5-13-92



SCALE: 1"= _____ PAGE ____ OF ____

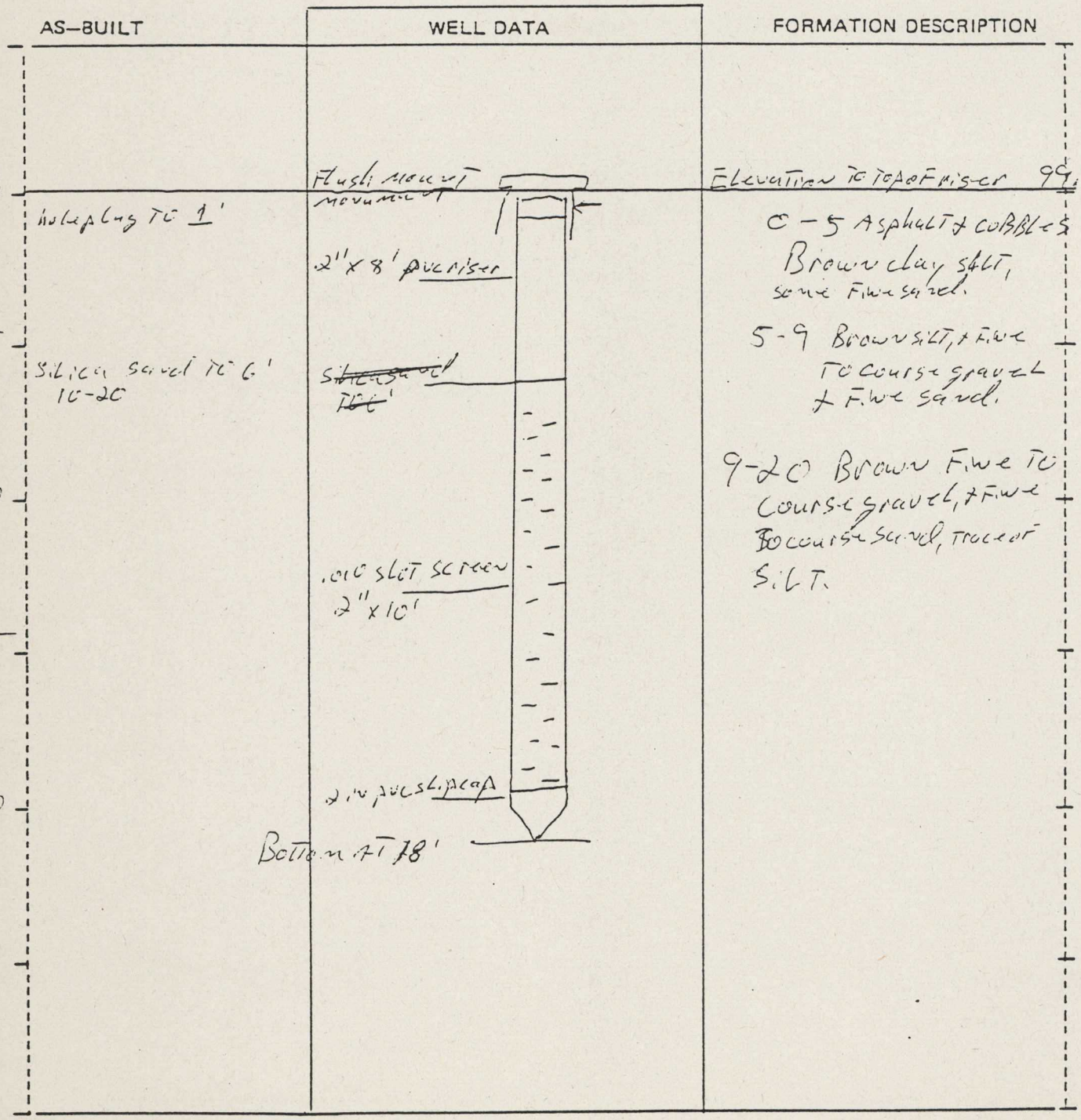
ECY 050-12

RESOURCE PROTECTION WELL REPORT

START CARD NO. 46235

PROJECT NAME: McAlevish national Guard
WELL INDENTIFICATION NO. MW-7
DRILLING METHOD: HSA 4.25"
DRILLER: John W Dolan III
FIRM: B.E.I.
SIGNATURE: John W Dolan
CONSULTING FIRM: B.E.I.
REPRESENTATIVE: K. Takeshishi

LOCATION: T 10N, R 20E, SEC 10
DISTANCE: _____ FT. FROM N/S SECTION LINE
_____ FT. FROM E/W SECTION LINE
DATUM:
WATER LEVEL ELEVATION:
INSTALLED: 8-12-92
DEVELOPED: 8-13-92



SCALE: 1"= _____ PAGE ____ OF ____

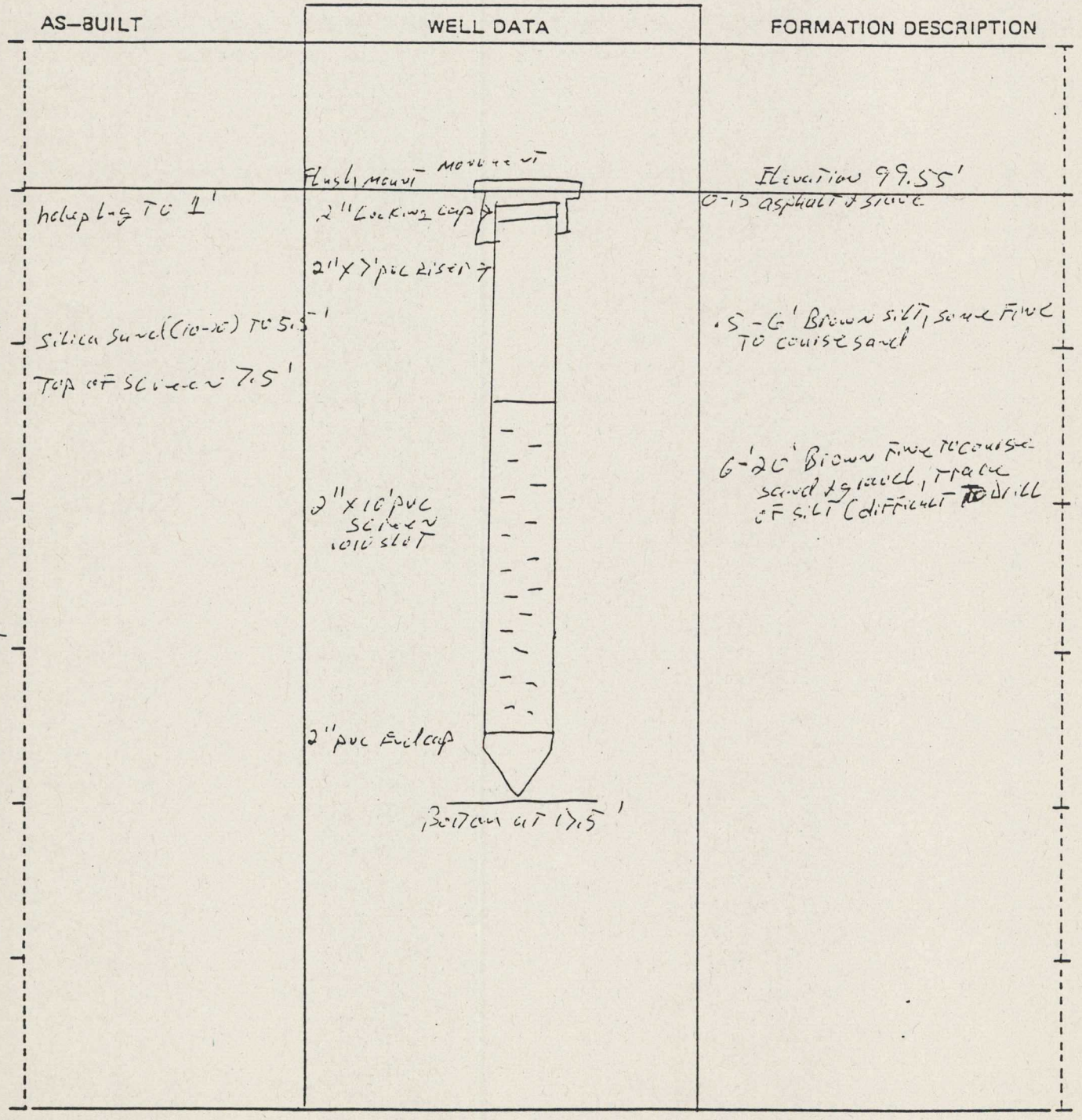
ECY 050-12

RESOURCE PROTECTION WELL REPORT

START CARD NO. 46935

PROJECT NAME: Tribal natural Gas
WELL INDENTIFICATION NO. MW-6
DRILLING METHOD: H.S.A. 4.25"
DRILLER: John W Dolan
FIRM: BEI
SIGNATURE: John W Dolan III
CONSULTING FIRM: BEI
REPRESENTATIVE: K. Takeshi

LOCATION: T 10N, R 20E, SEC. 16
DISTANCE: _____ FT. FROM N/S SECTION LINE
_____ FT. FROM E/W SECTION LINE
DATUM:
WATER LEVEL ELEVATION:
INSTALLED: 8-10-92
DEVELOPED: 8-13-92



SCALE: 1"= _____

PAGE ____ OF ____

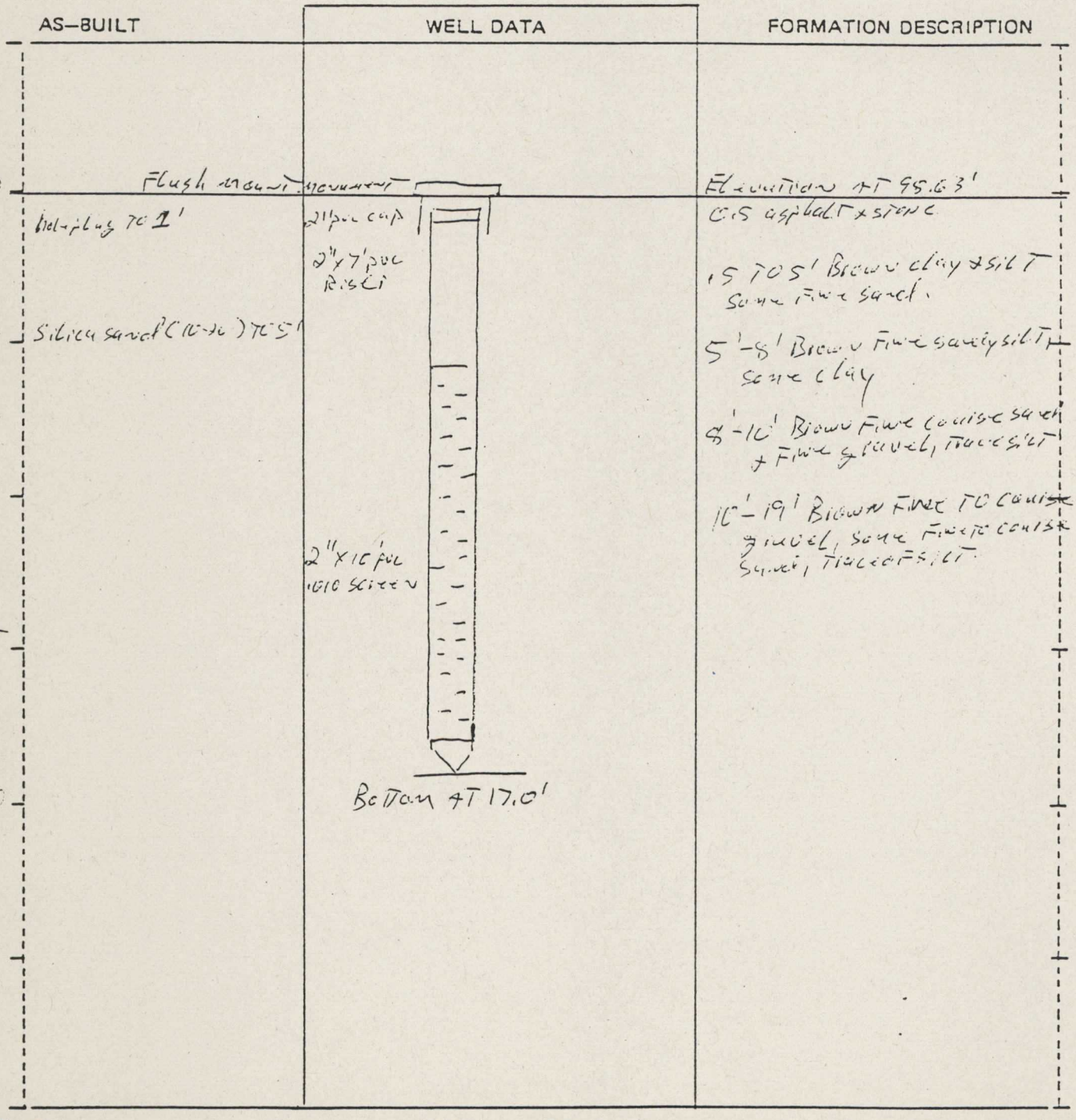
ECY 050-12

RESOURCE PROTECTION WELL REPORT

START CARD NO. 046935

PROJECT NAME: Tappanish national Guard
WELL INDENTIFICATION NO. MW-5
DRILLING METHOD: HSA 4.25"
DRILLER: John W. Dolan
FIRM: BEE
SIGNATURE: John W Dolan
CONSULTING FIRM: BEE
REPRESENTATIVE: E. Tahghighi

LOCATION: T 20 N, R 20 E, SEC. 10
DISTANCE: _____ FT. FROM N/S SECTION LINE
_____ FT. FROM E/W SECTION LINE
DATUM:
WATER LEVEL ELEVATION: 10.0'
INSTALLED: 4-11-92
DEVELOPED: 4-17-92



SCALE: 1"= _____ PAGE _____ OF _____

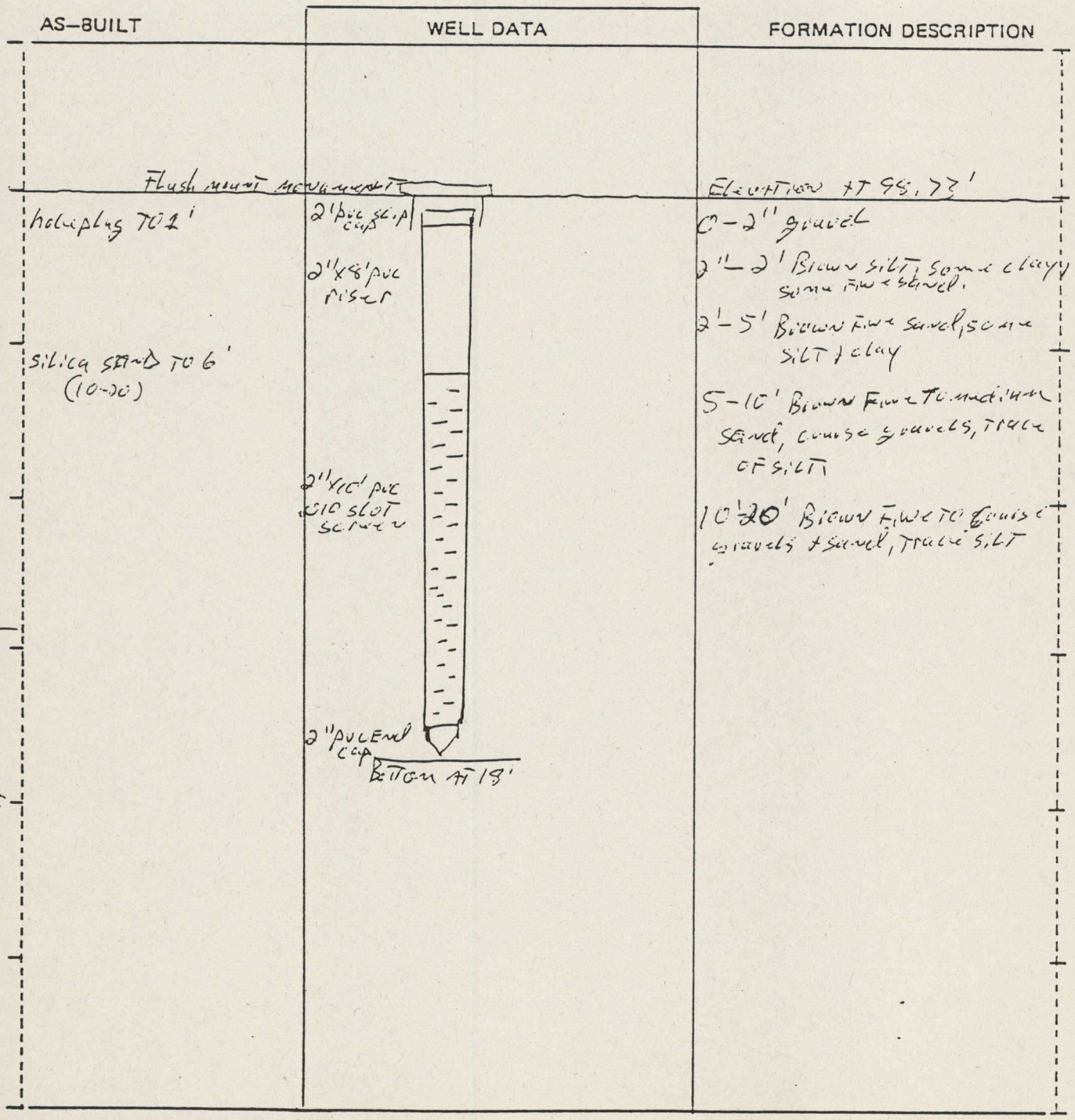
ECY 050-12

RESOURCE PROTECTION WELL REPORT

START CARD NO. 046935

PROJECT NAME: Toppenish National Guard
WELL INDENTIFICATION NO. mw-4
DRILLING METHOD: H.S.A. 4.25"
DRILLER: John w Dolan
FIRM: B-E-I
SIGNATURE: John w Dolan
CONSULTING FIRM: B-E-I
REPRESENTATIVE: E. Tahghighi

LOCATION: T 10N, R 20E, SEC. 10
DISTANCE: _____ FT. FROM N/S SECTION LINE
_____ FT. FROM E/W SECTION LINE
DATUM: _____
WATER LEVEL ELEVATION: 10.0'
INSTALLED: 8-11-92
DEVELOPED: 8-13-92



SCALE: 1"= _____

PAGE ____ OF ____

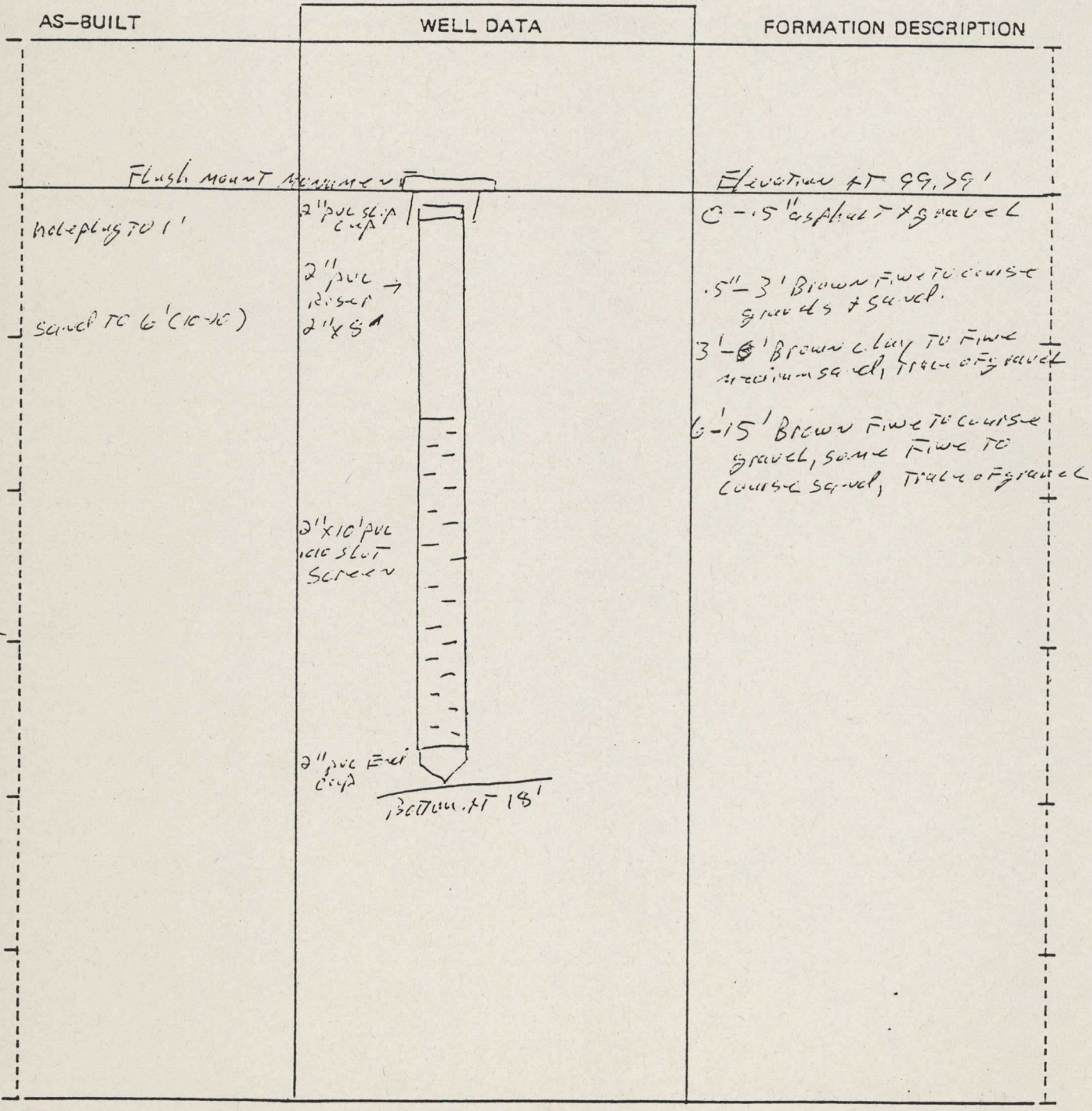
ECY 050-12

RESOURCE PROTECTION WELL REPORT

START CARD NO. 046935

PROJECT NAME: Tolleson National Guard
WELL INDENTIFICATION NO. RW-3
DRILLING METHOD: HSA 4.25"
DRILLER: John W Dolan
FIRM: B.F.I.
SIGNATURE: John W Dolan
CONSULTING FIRM: B.F.I.
REPRESENTATIVE: K. Tabghighi

LOCATION: T 1ON, R 2OE, SEC. 10
DISTANCE: _____ FT. FROM N/S SECTION LINE
_____ FT. FROM E/W SECTION LINE
DATUM: ICC'
WATER LEVEL ELEVATION: 10.5'
INSTALLED: 8-11-92
DEVELOPED: 8-13-92



SCALE: 1"= _____

PAGE ____ OF ____

EY 050-12

RESOURCE PROTECTION WELL REPORT

START CARD NO. 046835

PROJECT NAME: Toppenish National Guard

WELL INDENTIFICATION NO. MW-2

DRILLING METHOD: HSA 4.25" ID

DRILLER: John W Dolan

FIRM: BEI

SIGNATURE: John W. Dolan

CONSULTING FIRM: BEI

REPRESENTATIVE: K. Takeshichi

LOCATION: T 10N, R 20E, SEC. 10

DISTANCE: _____ FT. FROM N/S SECTION LINE

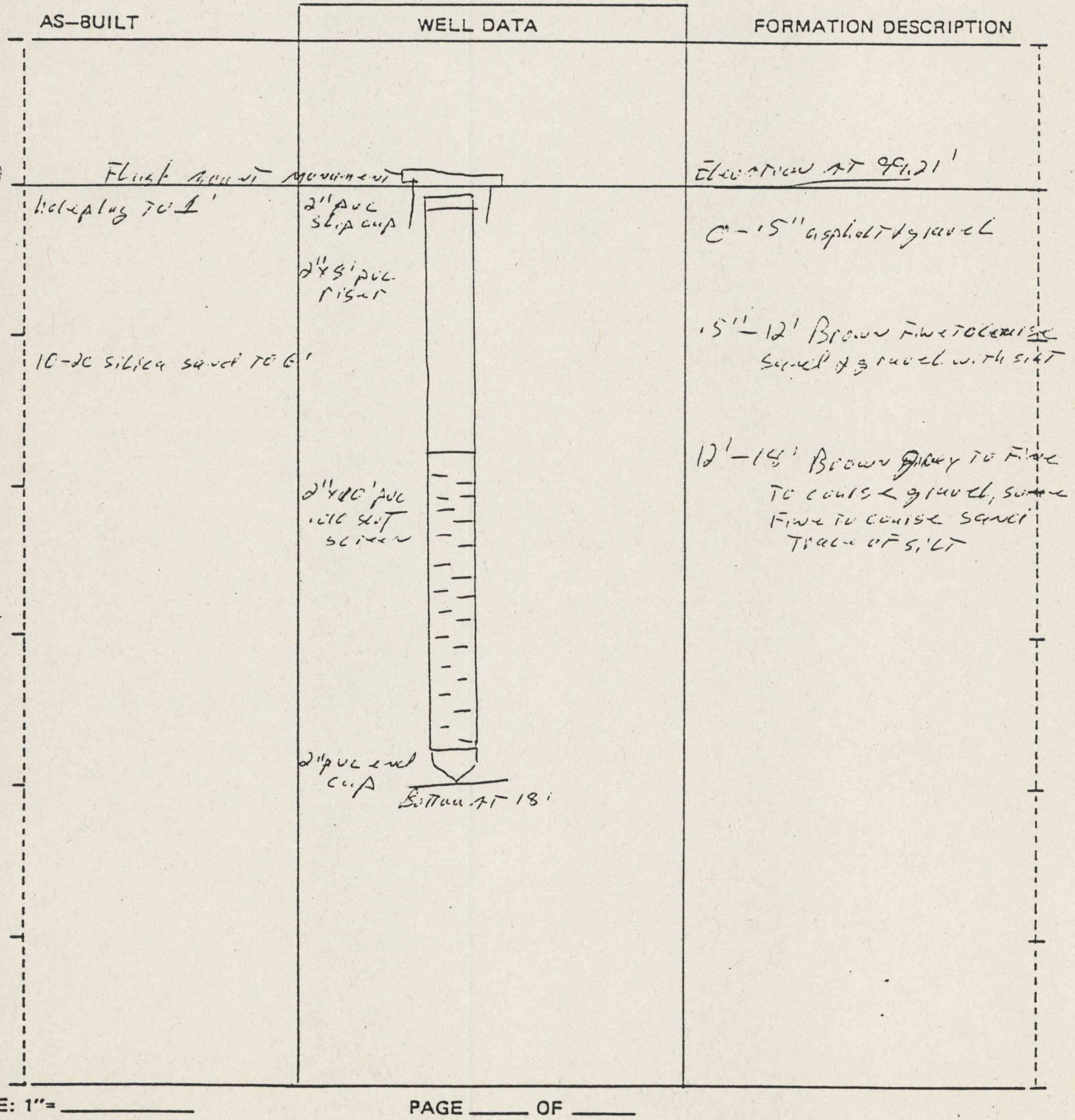
_____ FT. FROM E/W SECTION LINE

DATUM: 100'

WATER LEVEL ELEVATION: 10.5'

INSTALLED: 5-11-92

DEVELOPED: 5-13-92



SCALE: 1" = _____

PAGE _____ OF _____

ECY 050-12

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epartment of Ecology
econd Copy — Owner's Copy
hird Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. .....

(1) **OWNER:** Name David Rowe Address Hwy 30, Toppenish, Wa.

(2) **LOCATION OF WELL:** County Yakima — NW ¼ NW ¼ Sec. 29 T. 10 N., R. E W.M.

Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one) ....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 6 inches.
Drilled 65 ft. Depth of completed well 65 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 6 " Diam. from +1 ft. to 57 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) **PUMP:** Manufacturer's Name
Type: H.P.

(8) **WATER LEVELS:** Land-surface elevation above mean sea level.... ft.
Static level 8 ft. below top of well Date 1/27/86
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 20 gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) **WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Topsoil	0	10
Overburden & coarse gravel	10	18
Sand gravel, & water	18	22
Sand, silt, gravel	22	55
Sand silt gravel, & water	55	57
Gravel, sand	57	58
Brown clay & sand	58	57
consolidated rock	57	60
Gravel & water	60	65

RECEIVED
DEPARTMENT OF ECOLOGY
CENTRAL REGION OFFICE

Work started 1/ /86 19 Completed 1/ /86 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Vernon L. Rank
(Person, firm, or corporation) (Type or print)

Address [illegible] Rd. Yakima, Wa. 98903

[Signed] Vernon L. Rank
(Well Driller)

License No. 0354 Date 1/28/86, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

FORM 050-1-20 3

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 034219

Water Right Permit No. _____

(1) OWNER: Name Jim Rathbun Address 751 Meyers Rd., Toppenish

(2) LOCATION OF WELL: County Yakima SW ¼ NW ¼ Sec 11 T 10 N., R 20 W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) 751 Meyers Rd., Toppenish

(3) PROPOSED USE: [X] Domestic [ ] Industrial [ ] Municipal [ ] Irrigation [ ] Test Well [ ] Other [ ] DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) _____

Abandoned [ ] New well [X] Method: Dug [ ] Bored [ ] Deepened [ ] Cable [ ] Driven [ ] Reconditioned [ ] Rotary [X] Jetted [ ]

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 50 feet. Depth of completed well 50 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 50 ft. Welded [X] Liner installed [ ] Threaded [ ]

_____ " Diam. from _____ ft. to _____ ft.

_____ " Diam. from _____ ft. to _____ ft.

Perforations: Yes [ ] No [X]

Type of perforator used _____

SIZE of perforations _____ in. by _____ in.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

Screens: Yes [ ] No [X]

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes [ ] No [X] Size of gravel _____

Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes [X] No [ ] To what depth? 18 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes [ ] No [X]

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____

Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.

Static level 8 ft. below top of well Date 7-13-90

Artesian pressure _____ lbs. per square inch Date _____

Artesian water is controlled by _____ (Cap, valve, etc.))

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes [ ] No [X] If yes, by whom? _____

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Airtest 100 gal./min. with stem set at 50 ft. for 1 hrs.

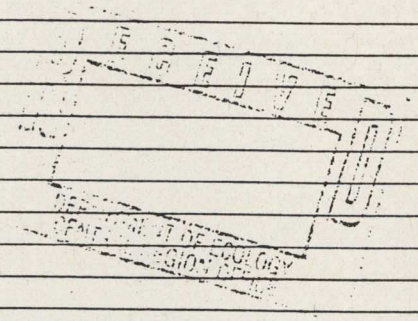
Artesian flow _____ g.p.m. Date 7-13-90

Temperature of water 59 Was a chemical analysis made? Yes [ ] No [X]

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Topsoil	0	8
Gravel & Silt & Sand	8	16
Gravel & Sand & Br. Clay & Water	16	50



Work started 7-13-90, 19. Completed 7-13-90, 19

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Water Wells Drilling INC. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 5503 Ahtanum Rd., Yakima 98903

(Signed) Tony L. Rank (WELL DRILLER) License No. 1435

Contractor's Registration No. WATER WD112QB Date 7-15-90, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

CY 050-1-20 (10 87) -1329- 3

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 033836

Water Right Permit No. _____

(1) OWNER: Name Delmar Bangs Address 140 Germantown Rd., Toppenish

(2) LOCATION OF WELL: County Yakima SE ¼ NW ¼ Sec. 11 T. 10 N., R. 20 W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) 360 Germantown Rd., Toppenish, WA 98948

(3) PROPOSED USE: ☐ Domestic ☒ Irrigation ☐ DeWater ☐ Industrial ☐ Test Well ☐ Municipal ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) _____

Abandoned ☐ New well ☒ Deepened ☐ Reconditioned ☐ Method: Dug ☐ Cable ☐ Rotary ☒ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 10 inches. Drilled 50 feet. Depth of completed well 50 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 10 " Diam. from +1 ft. to 50 ft.

Welded ☒ Liner installed ☐ Threaded ☐ _____ " Diam. from _____ ft. to _____ ft.

Perforations: Yes ☒ No ☐

Type of perforator used Mills Knife

SIZE of perforations 3/8 in. by 4 in.

50 perforations from 30 ft. to 40 ft.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☒

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel _____

Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.

Material used in seal Bentonite Clay & Cement

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____

Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.

Static level 9 ft. below top of well Date 4/4/92

Artesian pressure _____ lbs. per square inch Date _____

Artesian water is controlled by _____ (Cap, valve, etc.))

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? _____

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Airtest 300 gal./min. with stem set at 50 ft. for 1 hrs.

Artesian flow _____ g.p.m. Date 4/4/92

Temperature of water 60° Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Topsoil	0	3
Large & Small Gravel, Brown Clay & Sand	3	8
Large & Small Gravel, Brown Clay, Sand & Water	8	50

YAKIMA INDIAN NATION
PERMIT # 1992-5

Work started 3/31/92 19. Completed 4/4/92 19

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Water Wells Drilling, Inc. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 5503 Ahtanum Yakima, WA 98903

(Signed) _____ (WELL DRILLER) License No. 1435

Contractor's Registration No. WATERWD112QB Date 4/7/92 19

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

(10)

Application No. .....

Permit No. .....

(1) OWNER: Name Del Monte Corporation Address 49 E. Third, Tooenish, WA 98948

(2) LOCATION OF WELL: County Yakima — SW ¼ SW ¼ Sec. 11 T. 10 N., R. 20 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☒ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one).... #1
New well ☐ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 18 ft. Depth of completed well 17 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +3 ft. to 17 ft.
Threaded ☐ 4"PVC Diam. from +1 ft. to 2 ft.
Welded ☐ ..... " Diam. from ..... ft. to ..... ft.

Perforations: Yes ☐ No ☒
Type of perforator used .....
SIZE of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

Screens: Yes ☒ No ☐
Manufacturer's Name .....
Type PVC Model No. .....
Diam. 4" Slot size 20 from 2 ft. to 17 ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 2 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

(7) PUMP: Manufacturer's Name .....
Type: ..... H.P. .....

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ..... ft.
Static level 6 ft. below top of well Date 12/9/87
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by .....
(Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? .....
Yield: 45 gal./min. with ..... ft. drawdown after ..... hrs.
" " " "
" Estimated Airlift " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top Soil	0	6
Sand and Gravel	6	18
3' of 4" PVC Liner installed		
1 6" Drive Shoe utilized		
2 Hours developing time		

Work started 12/8 19 87 Completed 12/9 19 87

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME PONDEROSA DRILLING & DEVLOPMENT, INC.
(Person, firm, or corporation) (Type or print)

Address E. 6010 BROADWAY, SPOKANE, WA 99212

[Signed] Louie Hanner (Well Driller)

License No. 1472 Date 12/9 19 87
1472

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. .....

(1) OWNER: Name Del Monte Corp. Address 49 E. Third, Toppenish, WA 98948

(2) LOCATION OF WELL: County Yakima — SW ¼ SW ¼ Sec. 11 T. 10 N., R. 20 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☒ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 2
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 18 ft. Depth of completed well 17 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +3 ft. to 17 ft.
Threaded ☐ 4"PVC Diam. from +1 ft. to 2 ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☒ No ☐
Manufacturer's Name
Type PVC Model No.
Diam. 4 Slot size 20 from 2 ft. to 17 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 2 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 6 ft. below top of well Date 12/10/87
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: 45 gal./min. with ft. drawdown after hrs.
" " " "
" Estimated Airlift " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top Soil	0	6
Sand and Gravel	6	18
3' of 4" PVC Liner installed		
6" Drive Shoe utilized		
3½ Hours Developing time		

Work started 12/9 19 87 Completed 12/10 19 87

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME PONDEROSA DRILLING & DEVELOPMENT, INC.
(Person, firm, or corporation) (Type or print)

Address E. 6010 Broadway, Spokane, WA 99212

[Signed] LouieHanner (Well Driller)

License No. 1472 Date Dec. 10, 1987

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. .....

(1) OWNER: Name Del Monte Corporation Address E. 49 Third, Toppenish, WA 98948

) LOCATION OF WELL: County Yakima — SW ¼ SW ¼ Sec 11 T 10 N., R 20 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☒ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 3
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 18 ft. Depth of completed well 17 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +3 ft. to 17 ft.
Threaded ☐ 4" PVC Diam. from +1 ft. to 2 ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☒ No ☐
Manufacturer's Name
Type PVC Model No
Diam. 4 Slot size 20 from 2 ft. to 17 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 2 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 6 ft. below top of well Date 12/10/87
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: 45 gal./min. with ft. drawdown after hrs.
" " " "
" Estimated Airlift " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top Soil	0	6
Sand and Gravel	6	18
3' of 4" PVC Liner installed		
1 6" Drive Shoe utilized		
2 Hours developing time		

Work started 12/10 19 87 Completed 12/10 19 87

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME PONDEROSA DRILLING & DEVELOPMENT, INC.
(Person, firm, or corporation) (Type or print)

Address E. 6010 Broadway, Spokane, WA 99212

[Signed] Louie Hanner (Well Driller)

License No. 1472 Date December 10, 19 87

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

13

Application No. .....

Permit No. .....

(1) OWNER: Name Del Monte Corporation Address 49 East Third Ave, Toppenish, WA 98948

) LOCATION OF WELL: County Yakima — SW ¼ SW ¼ Sec 11 T 10 N., R 20 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☒ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one).... #4
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 18 ft. Depth of completed well 17 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +3 ft. to 17 ft.
Threaded ☐ 4"PVC Diam. from +1 ft. to 2 ft.
Welded ☐ ..... " Diam. from ..... ft. to ..... ft.

Perforations: Yes ☐ No ☒
Type of perforator used .....
SIZE of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

Screens: Yes ☒ No ☐
Manufacturer's Name .....
Type PVC Model No .....
Diam. 4 Slot size 20 from 2 ft. to 17 ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 2 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

(7) PUMP: Manufacturer's Name .....
Type: ..... H.P .....

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ..... ft.
Static level 6 ft. below top of well Date 12/11/87
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? .....
Yield: 45 gal./min. with ..... ft. drawdown after ..... hrs.
" " " "
" ESTIMATED AIRLIFT " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top Soil	0	6
Sand And Gravel	6	18
3' of 4" PVC Liner installed		
6" Drive Shoe utilized		
4 Hours developing time		

Work started 12/11 19 87 Completed 12/11 19 87

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME PONDEROSA DRILLING & DEVELOPMENT, INC.
(Person, firm, or corporation) (Type or print)

Address E. 6010 Broadway, Spokane, WA 99212

[Signed] ~~Louie Hanner~~ (Well Driller)

License No. 1472 Date Dec 11 19 87

(USE ADDITIONAL SHEETS IF NECESSARY)